

# Shottky barrier diode

## RB081L-20

●Applications

General rectification

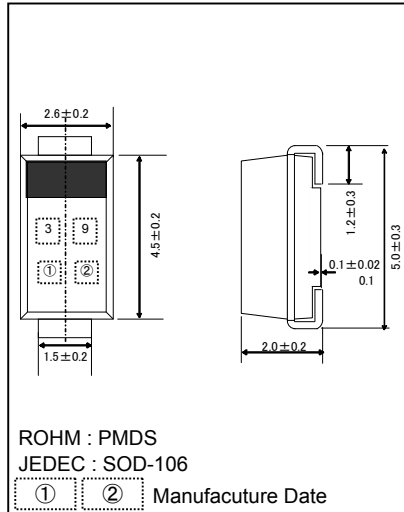
●Features

- 1) Small power mold type. (PMDS)
- 2) Low  $V_F$ , Low  $I_R$ .
- 3) High reliability.

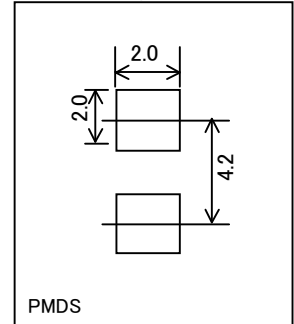
●Construction

Silicon epitaxial planar

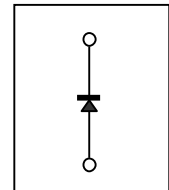
●Dimensions (Unit : mm)



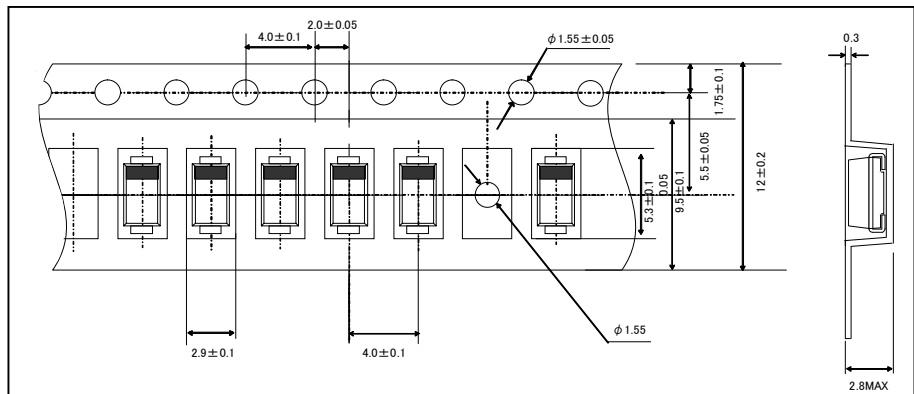
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



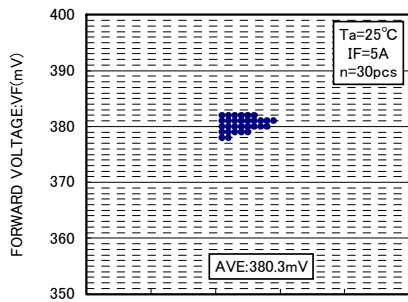
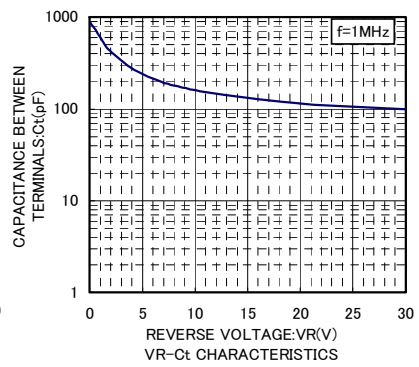
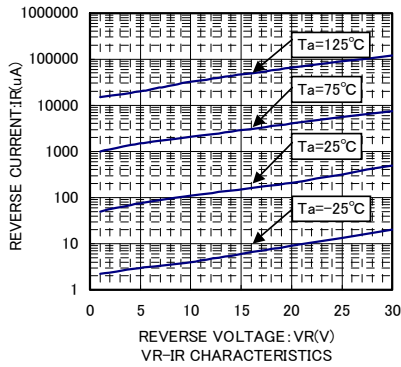
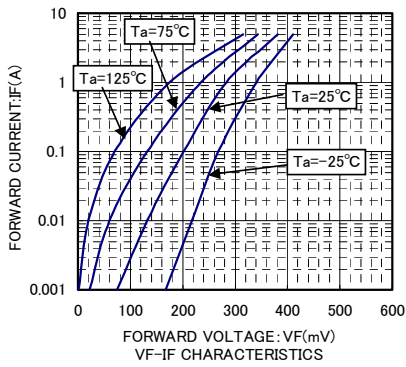
●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	25	V
Reverse voltage (DC)	$V_R$	20	V
Average rectified forward current (*1)	$I_o$	5	A
Forward current surge peak (60Hz · 1cyc)	$I_{FSM}$	70	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

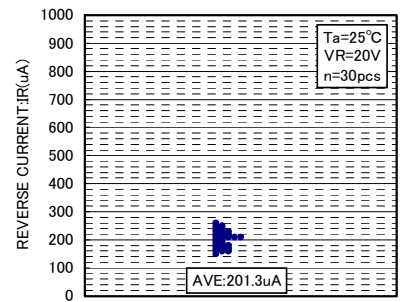
(\*1) Mounted on epoxy board. 180° Half sine wave

●Electrical characteristics (Ta=25°C)

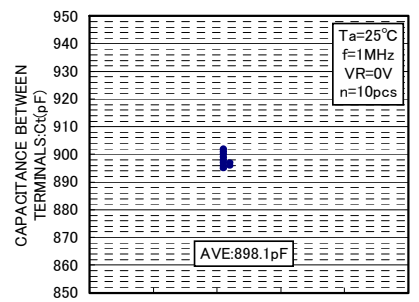
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.45	V	$I_F=5.0A$
Reverse current	$I_R$	-	-	700	μA	$V_R=20V$



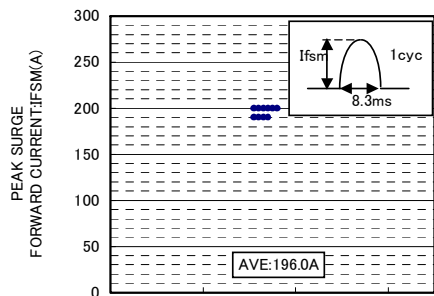
VF DISPERSION MAP



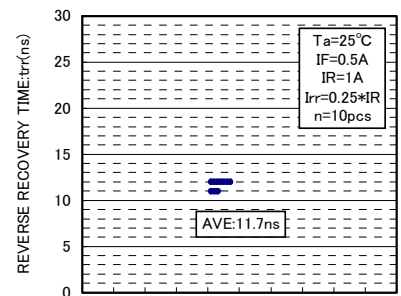
IR DISPERSION MAP



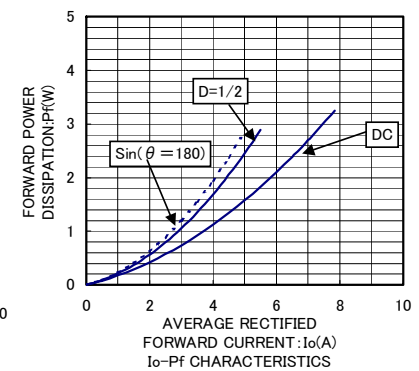
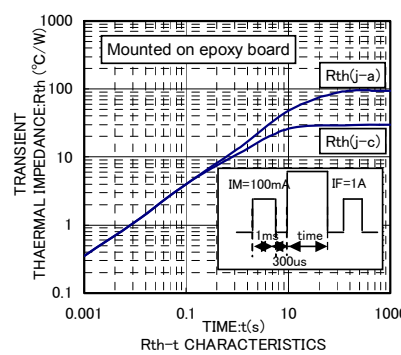
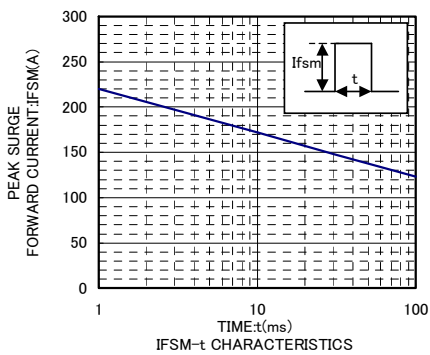
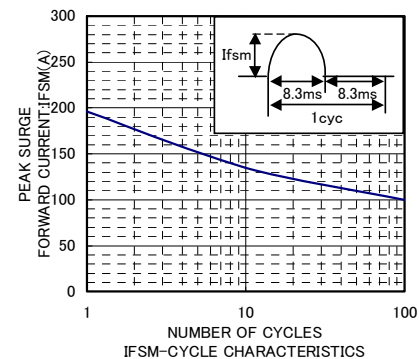
Ct DISPERSION MAP

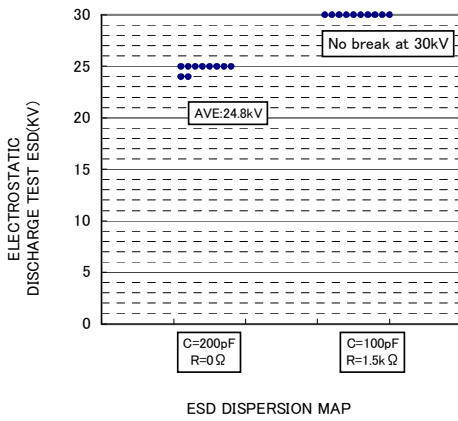
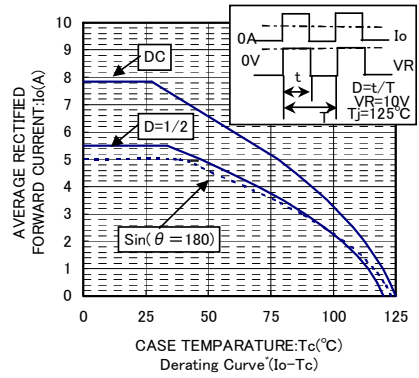
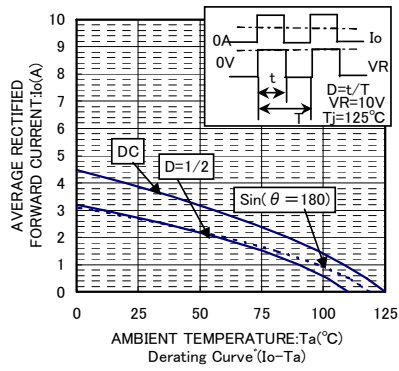
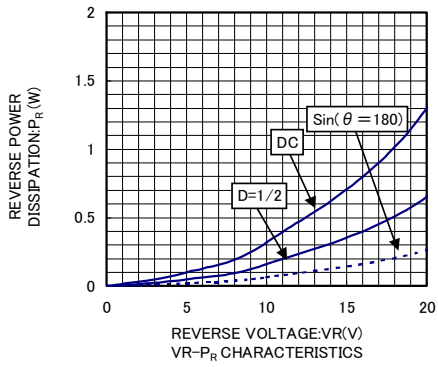


IFSM DISERSION MAP



trr DISPERSION MAP





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